

# Ashlee J Howarth

## List of Publications by Citations

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59  
papers

5,959  
citations

32  
h-index

70  
g-index

70  
ext. papers

7,205  
ext. citations

12.3  
avg, IF

6.27  
L-index

#	Paper	IF	Citations
59	Chemical, thermal and mechanical stabilities of metal-organic frameworks. <i>Nature Reviews Materials</i> , <b>2016</b> , 1,	73.3	1026
58	Metal-organic frameworks for the removal of toxic industrial chemicals and chemical warfare agents. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 3357-3385	58.5	557
57	Metal-organic frameworks for heavy metal removal from water. <i>Coordination Chemistry Reviews</i> , <b>2018</b> , 358, 92-107	23.2	516
56	Postsynthetic Tuning of Metal-Organic Frameworks for Targeted Applications. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 805-813	24.3	488
55	Best Practices for the Synthesis, Activation, and Characterization of Metal-Organic Frameworks. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 26-39	9.6	341
54	High efficiency adsorption and removal of selenate and selenite from water using metal-organic frameworks. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7488-94	16.4	265
53	Catalytic Zirconium/Hafnium-Based Metal-Organic Frameworks. <i>ACS Catalysis</i> , <b>2017</b> , 7, 997-1014	13.1	233
52	Bottom-up construction of a superstructure in a porous uranium-organic crystal. <i>Science</i> , <b>2017</b> , 356, 624-627	32.7	223
51	Catalytic degradation of chemical warfare agents and their simulants by metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , <b>2017</b> , 346, 101-111	23.2	206
50	Enzyme encapsulation in metal-organic frameworks for applications in catalysis. <i>CrystEngComm</i> , <b>2017</b> , 19, 4082-4091	3.3	191
49	Selective Photooxidation of a Mustard-Gas Simulant Catalyzed by a Porphyrinic Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 9001-5	16.4	186
48	A Hafnium-Based Metal-Organic Framework as a Nature-Inspired Tandem Reaction Catalyst. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 13624-31	16.4	115
47	Efficient and selective oxidation of sulfur mustard using singlet oxygen generated by a pyrene-based metal-organic framework. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 13809-13813	13	109
46	Rare-earth metal-organic frameworks: from structure to applications. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 7949-7977	58.5	107
45	Metal-organic frameworks for applications in remediation of oxyanion/cation-contaminated water. <i>CrystEngComm</i> , <b>2015</b> , 17, 7245-7253	3.3	105
44	Efficient Capture of Perrhenate and Pertechnetate by a Mesoporous Zr Metal-Organic Framework and Examination of Anion Binding Motifs. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1277-1284	9.6	89
43	Presence versus Proximity: The Role of Pendant Amines in the Catalytic Hydrolysis of a Nerve Agent Simulant. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 1949-1953	16.4	88

42	Benign by Design: Green and Scalable Synthesis of Zirconium UiO-Metal-Organic Frameworks by Water-Assisted Mechanochemistry. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 15841-15849	8.3	77
41	Detoxification of a Sulfur Mustard Simulant Using a BODIPY-Functionalized Zirconium-Based Metal-Organic Framework. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 24555-24560	9.5	76
40	Postsynthetic Incorporation of a Singlet Oxygen Photosensitizer in a Metal-Organic Framework for Fast and Selective Oxidative Detoxification of Sulfur Mustard. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 214-218	4.8	74
39	High volumetric uptake of ammonia using Cu-MOF-74/Cu-CPO-27. <i>Dalton Transactions</i> , <b>2016</b> , 45, 4150-3	4.3	71
38	Detoxification of Chemical Warfare Agents Using a Zr -Based Metal-Organic Framework/Polymer Mixture. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 14864-14868	4.8	68
37	Growth of ZnO self-converted 2D nanosheet zeolitic imidazolate framework membranes by an ammonia-assisted strategy. <i>Nano Research</i> , <b>2018</b> , 11, 1850-1860	10	50
36	Rational Synthesis of Mixed-Metal Microporous Metal-Organic Frameworks with Controlled Composition Using Mechanochemistry. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 5494-5501	9.6	49
35	Selective Photooxidation of a Mustard-Gas Simulant Catalyzed by a Porphyrinic Metal-Organic Framework. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 9129-9133	3.6	49
34	A visually detectable pH responsive zirconium metal-organic framework. <i>Chemical Communications</i> , <b>2016</b> , 52, 3438-41	5.8	47
33	Adding to the Arsenal of Zirconium-Based Metal-Organic Frameworks: the Topology as a Platform for Solvent-Assisted Metal Incorporation. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 4349-4352	2.3	46
32	Improving the Efficiency of Mustard Gas Simulant Detoxification by Tuning the Singlet Oxygen Quantum Yield in Metal-Organic Frameworks and Their Corresponding Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 23802-23806	9.5	46
31	Efficient extraction of sulfate from water using a Zr-metal-organic framework. <i>Dalton Transactions</i> , <b>2016</b> , 45, 93-7	4.3	43
30	A historical perspective on porphyrin-based metal-organic frameworks and their applications. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 429,	23.2	43
29	Green and rapid mechanosynthesis of high-porosity NU- and UiO-type metal-organic frameworks. <i>Chemical Communications</i> , <b>2018</b> , 54, 6999-7002	5.8	39
28	Green applications of metal-organic frameworks. <i>CrystEngComm</i> , <b>2018</b> , 20, 5899-5912	3.3	35
27	Efficient extraction of inorganic selenium from water by a Zr metal-organic framework: investigation of volumetric uptake capacity and binding motifs. <i>CrystEngComm</i> , <b>2018</b> , 20, 6140-6145	3.3	26
26	Elucidating the Origin of Enhanced Phosphorescence Emission in the Solid State (EPESS) in Cyclometallated Iridium Complexes. <i>European Journal of Inorganic Chemistry</i> , <b>2014</b> , 2014, 3657-3664	2.3	25
25	Tuning the emission lifetime in bis-cyclometalated iridium(III) complexes bearing iminopyrene ligands. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 11882-9	5.1	25

24	Adsorptive removal of Sb(V) from water using a mesoporous Zr-based metal-organic framework. <i>Polyhedron</i> , <b>2018</b> , 151, 338-343	2.7	25
23	Supercritical Carbon Dioxide Enables Rapid, Clean, and Scalable Conversion of a Metal Oxide into Zeolitic Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 3222-3228	3.5	24
22	Simple, scalable mechanosynthesis of metal-organic frameworks using liquid-assisted resonant acoustic mixing (LA-RAM). <i>Chemical Science</i> , <b>2020</b> , 11, 7578-7584	9.4	22
21	Presence versus Proximity: The Role of Pendant Amines in the Catalytic Hydrolysis of a Nerve Agent Simulant. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 1967-1971	3.6	22
20	Detoxification of a Mustard-Gas Simulant by Nanosized Porphyrin-Based Metal-Organic Frameworks. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 465-469	5.6	22
19	Towards hydroxamic acid linked zirconium metal-organic frameworks. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 1194-1199	7.8	17
18	Ammonia Capture within Zirconium Metal-Organic Frameworks: Reversible and Irreversible Uptake. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 20081-20093	9.5	15
17	Efficient activation of peroxymonosulfate by composites containing iron mining waste and graphitic carbon nitride for the degradation of acetaminophen. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 400, 123310	12.8	14
16	Building a shp: A Rare-Earth Metal-Organic Framework and Its Application in a Catalytic Photooxidation Reaction. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 4163-4169	9.6	10
15	Bottom-Up Design and Generation of Complex Structures: A New Twist in Reticular Chemistry. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 449-455	3.5	10
14	Combining solvent-assisted linker exchange and transmetallation strategies to obtain a new non-catenated nickel (II) pillared-paddlewheel MOF. <i>Inorganic Chemistry Communication</i> , <b>2016</b> , 67, 60-63 <sup>3-1</sup>		9
13	Modulating Photo- and Radioluminescence in Tb(III) Cluster-Based Metal-Organic Frameworks	1025-1031	5
12	Modular Construction of Porous Hydrogen-Bonded Molecular Materials from Melams. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 7026-7040	4.8	4
11	Synthetic approaches for accessing rare-earth analogues of UiO-66. <i>Chemical Communications</i> , <b>2021</b> , 57, 6121-6124	5.8	4
10	Phosphonates Meet Metal-Organic Frameworks: Towards CO <sub>2</sub> Adsorption. <i>Israel Journal of Chemistry</i> , <b>2018</b> , 58, 1164-1170	3.4	4
9	Experimentalists and theorists need to talk. <i>Nature</i> , <b>2017</b> , 551, 433-434	50.4	3
8	Metal-organic frameworks for capture and detoxification of nerve agents	<b>2019</b> , 179-202	3
7	Building a Shp: A New Rare-Earth Metal-Organic Framework and Its Application in a Catalytic Photo-Oxidation Reaction		3

- 6 Organomimetic clusters: Precision in 3D. *Nature Chemistry*, **2017**, 9, 299-301 17.6 1
- 5 MetalOrganic Frameworks: An Emerging Class of Solid-State Materials **2017**, 165-193 1
- 4 Remodelling a shp: Transmetalation in a Rare-Earth Cluster-Based Metal-Organic Framework. *Inorganic Chemistry*, **2021**, 60, 11795-11802 5.1 1
- 3 Adding to the Arsenal of Zirconium-Based MetalOrganic Frameworks: the Topology as a Platform for Solvent-Assisted Metal Incorporation. *European Journal of Inorganic Chemistry*, **2016**, 2016, 4266-4266<sup>2,3</sup> 1
- 2 MetalOrganic frameworks for the generation of reactive oxygen species. *Chemical Physics Reviews*, **2021**, 2, 041301 4.4 0
- 1 Simplifying and expanding the scope of boron imidazolate framework (BIF) synthesis using mechanochemistry. *Chemical Science*, **2021**, 12, 14499-14506 9.4 0